

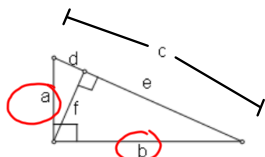
7.1 Geometric Mean

Find a g mean b/w 3 & 8.

$$\frac{3}{g} = \frac{g}{8}$$

$$\sqrt{g^2} = \sqrt{3 \cdot 8}$$

$$g = 2\sqrt{6}$$



$$\frac{d}{f} = \frac{f}{e}$$

$$\frac{c}{a} = \frac{a}{d} \quad \frac{c}{b} = \frac{b}{e}$$

7.2 Pythagorean Theorem and Converse

$$c^2 = a^2 + b^2$$

$$c^2 > a^2 + b^2$$

$$c^2 < a^2 + b^2$$

Obtuse
Acute

7.3 Special Right Triangles

30	60	90
x	x√3	2x
2√3	6	4√3

45	45	90
x	x	x√2

Squares, isosceles triangles, equilateral triangles

7.4 SOHCAHTOA

$$\sin = \frac{\text{opp}}{\text{hyp}}$$

$$\tan = \frac{\text{opp}}{\text{adj}}$$

$$\cos = \frac{\text{adj}}{\text{hyp}}$$

7.5 Word Problems

angle of elevation

angle of depression

